

## COMBINED DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled LIGHT EMITTING DEVICE AND MANUFACTURING METHOD THEREOF, the specification of which:

- ☐ is attached hereto.  
☒ was filed on October 19, 2001 as Application Serial No. 09/982,100 and was amended on October 19, 2001.  
☐ was described and claimed in PCT International Application No. \_\_\_\_\_ filed on \_\_\_\_\_ and as amended under PCT Article 19 on \_\_\_\_\_.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose all information I know to be material to patentability in accordance with Title 37, Code of Federal Regulations, §1.56.

I hereby claim the benefit under Title 35, United States Code, §119(e)(1) of any United States provisional application(s) listed below:

U.S. Serial No.	Filing Date	Status
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I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose all information I know to be material to patentability as defined in Title 37, Code of Federal Regulations, §1.56(a) which became available between the filing date of the prior application and the national or PCT international filing date of this application:

U.S. Serial No.	Filing Date	Status
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I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed:

Country	Application No.	Filing Date	Priority Claimed
Japan	2000-326290	October 26, 2000	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

I hereby appoint the following attorneys and/or agents to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

**Combined Declaration and Power of Attorney**

Page 2 of 2 Pages

John F. Hayden, Reg. No. 37,640; Scott C. Harris, Reg. No. 32,030; Michael McKeon, Reg. No. 37,888; Linda Liu Kordziel, Reg. No. 39,732; William E. Booth, Reg. No. 28,933; Ruffin B. Cordell, Reg. No. 33,487; John W. Freeman, Reg. No. 29,066; Timothy A. French, Reg. No. 30,175; G. Roger Lee, Reg. No. 28,963; Ralph A. Mittelberger, Reg. No. 33,195; John B. Pegram, Reg. No. 25,198; Rene D. Tegtmeyer, Reg. No. 33,567; Charles C. Winchester, Reg. No. 21,040; William D. Hare, Reg. No. 44,739; James E. Mrose, Reg. No. 33,264; Lauren A. Degnan, Reg. No. 40,584; Andrew F. Bodendorf, Reg. No. 39,537; Robert V. Racunas, Jr., Reg. No. 43,027; Diana DiBerardino, Reg. No. 45,653; W. Karl Renner, Reg. No. 41,265; Joseph F. Key, Reg. No. 44,827; Harold H. Fox, Reg. No. 41,498; Scott R. Boalick, Reg. No. 42,337; Joseph V. Colaianni, Jr., Reg. No. 39,948; Gregory A. Walters, Reg. No. 41,366; R. Whitney Winston, Reg. No. 44,432; Bing Ai, Reg. No. 43,312; N. Thane Bauz, Reg. No. 41,604; Robert Bedgood, Ph.D., Reg. No. 43,488; Gregory P. Einhorn, Reg. No. 38,440; Diane L. Gardner, Reg. No. 36,518; James T. Hagler, Reg. No. 40,631; Kenyon S. Jenckes, Reg. No. 41,873; Samuel S. Lee, Reg. No. 42,791; Christopher S. Marchese, Reg. No. 37,177; Todd G. Miller, Reg. No. 42,003; Shekhar Vyas, Reg. No. 46,166; John R. Wetherell, Jr., Ph.D., Reg. No. 31,678; Mark R.W. Bellerman, Reg. No. 47,419; and Heather Morin, Reg. No. 37,336.

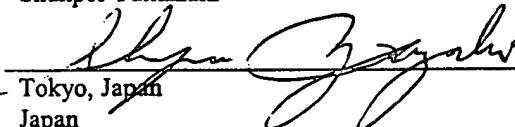
Address all telephone calls to JOHN F. HAYDEN at telephone number (202) 783-5070.

Address all correspondence to JOHN F. HAYDEN at:

FISH & RICHARDSON P.C.  
601 Thirteenth Street, NW  
Washington, DC 20005

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patents issued thereon.

Full Name of Inventor: Shunpei Yamazaki

Inventor's Signature: 

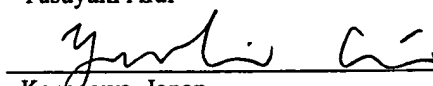
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Full Name of Inventor: Yasuyuki Arai

Inventor's Signature: 

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MARCH 22, 2002

PTAS

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UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 01/23/2002

REEL/FRAME: 012505/0449  
NUMBER OF PAGES: 2

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:  
YAMAZAKI, SHUNPEI

DOC DATE: 01/17/2002

ASSIGNOR:  
ARAI, YASUYUKI

DOC DATE: 01/16/2002

ASSIGNEE:  
SEMICONDUCTOR ENERGY LABORATORY  
CO., LTD.  
398 HASE ATSUGI-SHI  
KANAGAWA-KEN, JAPAN 243-0036

SERIAL NUMBER: 09982100  
PATENT NUMBER:

FILING DATE: 10/19/2001  
ISSUE DATE:

TARA WASHINGTON, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

* No Bookending Required *	
Reviewed By Practice Systems	
Initials:	Kyu
Reviewed By Billing Secretary	
Initials:	



01-30-2002

Substitute Form PTO-1595  
Attorney Docket No.: 12732-080001  
Client's Ref. No.: US5277

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Commissioner for Patents: Please record the attached original document(s) or copy(ies).				
1. Name of conveying party(ies): <b>Shunpei Yamazaki and Yasuyuki Arai</b> Additional name(s) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2. Name and address of receiving party(ies): <b>Semiconductor Energy Laboratory Co., Ltd.</b> <b>398 Hase Atsugi-shi</b> <b>Kanagawa-ken 243-0036</b> <b>JAPAN</b>  Additional names/addresses attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other:  Execution Dates: <b>January 17, 2002 and January 16, 2002</b>				
4. Application number(s) or patent number(s): If this document is being filed with a new application, the execution date of the application is: A. Patent Application No(s): <b>09/982,100</b> B. Patent No(s):  Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
5. Name/address of party to whom correspondence concerning document should be mailed:  <b>JOHN F. HAYDEN</b> <b>Fish &amp; Richardson P.C.</b> <b>601 Thirteenth Street, NW</b> <b>Washington, DC 20005</b>	6. Total number of applications/patents involved: <b>1</b>  7. Total fee (37 CFR §3.41): <b>\$40</b> <input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> Authorized to charge Deposit Account.  8. Deposit Account No.: <b>06-1050</b> <input checked="" type="checkbox"/> Please apply any additional charges, or any credits, to our Deposit Account No. 06-1050.			
DO NOT USE THIS SPACE				
9. Statement and Signature: <i>To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.</i>  <table><tr><td><b>John F. Hayden</b> Reg. No. 37,640 Name of Person Signing</td><td> Signature</td><td><b>January 23, 2002</b> Date</td></tr></table>		<b>John F. Hayden</b> Reg. No. 37,640 Name of Person Signing	 Signature	<b>January 23, 2002</b> Date
<b>John F. Hayden</b> Reg. No. 37,640 Name of Person Signing	 Signature	<b>January 23, 2002</b> Date		
Total number of pages including coversheet, attachments and document: <b>2</b>				

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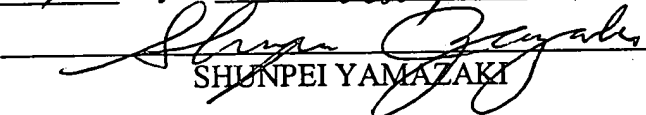
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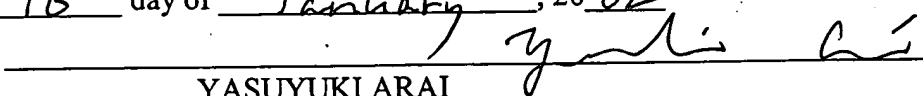
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## ASSIGNMENT

For valuable consideration, we, Shunpei Yamazaki of Tokyo, Japan and Yasuyuki Arai of Kanagawa, Japan, hereby assign to Semiconductor Energy Laboratory Co., Ltd., a Japan corporation having a place of business at 398 Hase Atsugi-shi, Kanagawa-ken 243-0036, JAPAN; and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by us, entitled LIGHT EMITTING DEVICE AND MANUFACTURING METHOD THEREOF, filed October 19, 2001, and assigned U.S. Serial Number 09/982,100, and we authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting above the filing date and serial number of said application when known; this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

IN WITNESS WHEREOF, I hereto set my hand and seal at Kanagawa,  
this 17 day of January, 2002  
  
SHUNPEI YAMAZAKI L.S.

IN WITNESS WHEREOF, I hereto set my hand and seal at Kanagawa,  
this 16 day of January, 2002  
  
YASUYUKI ARAI L.S.